

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave.St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001309**Date Inspected:** 28-Sep-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2200**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Lift 4 West, Lift 3 West, Lift 2 East, Office**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**Lift 4 West**

Upper Corner Unit repairs in process. Performed a cursory joint inspection with ABF Bill Oak and marked up numerous areas on internal surfaces which require repairs. Areas marked exhibited rust stain of previous applied undercoat, rusted base metal, over-blast damages, and insufficient Dry Film Thickness(DFT). ZPMC personnel were in process of performing cleaning operations via compressed air and dusting surfaces and also applying Interzinc 22 to properly prepared areas from panel Point 28 to end.

**Lift 2 East**

Bottom Plate faying surface beneath Cross Beam/FL-3 beams was inspected prior to bolting to lift and was found to be in general compliance with the contract documents.

**ABF Office**

Reviewed and signed project documentation and notices of inspection backlog.

**Lift 3 West**

Internal surfaces of floor and "T" stiffeners were abrasive blasted to remove rust stain from previously undercoated surfaces and to remove visible rust from exposed base metal to an SSPC SP-10 condition and Interzinc 22 re-applied from panel point 19 to end. Also panel point 22-24 was abrasive blasted as well however no coating was applied as abrasive removal was incomplete at time of inspection.

**Lift 2 East**

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## SOURCE INSPECTION REPORT

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Internal Top Plate area and “U” rib stiffeners were inspected for “Final” inspection at ZPMC request and areas exhibited general compliance with contract documents from Panel Point 14-17, except from Panel Point 13-14 ZPMC QC cancelled the in process inspection as many areas were found to be non-compliant and required re-work and repairs.

### Lift 3 West

Internal Bottom Plate and Side Plate and “T” stiffeners from Panel Point 21-23 were abrasive blasted to remove rust stained undercoat and rust from base metal to an SSPC SP-10 condition and Interzinc 22 re-applied.

### Lift 4 West

ZPMC personnel performing minor touch up to internal surfaces with Interzinc 52 and Interzinc 22 from Panel Point 28 to end termination.

Note: ZPMC inquired if Caltrans QA Lumley would work beyond normal shift hours to assist in expediting inspection of the internal of Lift 4 West, Caltrans QA Lumley complied with ZPMC request however during the course of performing subsequent inspection process of Lift 4 West ZPMC then requested additional inspections in different locations consisting of Lift 3 West, and Lift 2 East to which Caltrans QA also assisted ZPMC with.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

No relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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